

WHAT IS CLAIMED IS:

1. An article of manufacture comprising polyethylene having an "a" parameter of up to about 0.40.
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2. The article of manufacture of claim 1 wherein the "a" parameter ranges from about 0.10 to about 0.40.
3. The article of manufacture of claim 1 wherein the "a" parameter ranges
10 from about 0.10 to about 0.20.
4. The article of manufacture of claim 1 wherein the polyethylene is metallocene polyethylene.
- 15 5. The article of manufacture of claim 1, wherein the polyethylene has a molecular weight distribution of from about 2 to about 5.
6. The article of manufacture of claim 2, wherein the polyethylene has a molecular weight distribution of from about 2 to about 5.
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7. The article of manufacture of claim 3, wherein the polyethylene has a molecular weight distribution of from about 3 to about 4.
8. The article of manufacture of claim 1 having a 60° specular gloss of at
25 least about 40%.

9. The article of manufacture of claim 2 having a 60° specular gloss of from about 40% to about 80%.
10. The article of manufacture of claim 3 having a 60° specular gloss of
5 from about 60% to about 80%.
11. The article of manufacture of claim 8, further comprising one or more pigments combined with the polyethylene.
- 10 12. The article of manufacture of claim 9, further comprising one or more pigments combined with the polyethylene.
13. The article of manufacture of claim 10, further comprising one or more pigments combined with the polyethylene.
- 15 14. The article of manufacture of claim 1 further comprising one or more additional polymer resins.
15. The article of manufacture of claim 1, further comprising up to about
20 50% by weight of one or more additional polymer resins based on a total weight of the article of manufacture.
16. The article of manufacture of claim 1, further comprising up to about
25 25% by weight of one or more additional polymer resins based on a total weight of the article of manufacture.

17. The article of manufacture of claim 1, further comprising up to about 10% by weight of one or more additional polymer resins based on a total weight of the article of manufacture.

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18. The article of manufacture of claim 14, wherein the polyethylene is in an outer layer and additional polymer resin is in inner layer.

19. The article of manufacture of claim 14 wherein the polyethylene and the additional polymer resin are uniformly blended throughout the article.

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20. The article of manufacture of claim 19 where the polyethylene is metallocene polyethylene and the additional polymer resin is a non-metallocene polymer resin.

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21. The article of manufacture of claim 4, having an outer layer and an inner layer, wherein the outer layer comprises the metallocene polyethylene and the inner layer consists essentially of one or more polymers other than metallocene polyethylene.

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22. The article of manufacture of claim 1, being selected from a group comprising a bottle, a container, a cup, a tray, a pallet, a toy, a film, a sheet, and a pipe.

23. A process for forming an article of manufacture, comprising:
blow molding or extruding a polyethylene resin into an article having an "a"
parameter of up to about 0.40.
- 5 24. The process of claim 23 wherein the article further comprises one or
more additional polymer resins.
25. The process of claim 24 wherein the additional polymer resin
comprises up to about 50 % by weight of the second article based on a total
10 weight of the blend.
26. The process of claim 24 wherein the additional polymer resin
comprises up to about 25 % by weight of the second article based on a total
weight of the blend.
- 15 27. The process of claim 24 wherein the additional polymer resin
comprises up to about 10 % by weight of the second article based on a total
weight of the blend.
- 20 28. The process of claim 23, the article of manufacture being selected from
a group comprising a bottle, a container, a cup, a tray, a pallet, a toy, a film, a
sheet, and a pipe.
- 25 29. The process of Claim 23 wherein the process is performed on a
commercial scale.